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[Water Resour. Board, Oklahoma City, OK 73101]

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[Inst. Biol. Problems North, Far E. Branch, Russian Acad. Sci., Magadan, Russia] *Gadus macrocephalus, Theragra chalcogramma, Myoxocephalus, Anarhichas orientalis, Limanda, Sebastes, Oncorhynchus* and *Salvelinus leucomaenis.*

## GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (Continued)

94-005469 Petryszak, Boguslaw. [STATE OF INVESTIGATIONS ON THE GORCE FAUNA.] *Parki Nar. Rez. Przyr.* 11(4):5-24. 1992. In Polish with English summ. FR 39(3)

[Uniw. Jagiellonski, Zaklad Zool. Syst., Zoogeogr., ul. Ingardena 6, 30-060 Krakow, Poland] *Salmo trutta fario, Phoxinus phoxinus, Nemacheilus barbatulus, Cottus poecilopus, Thymallus thymallus, Barbus meridionalis petenyi, Leuciscus cephalus,* and *Chondrostoma nasus* in Poland]

94-005470 Pigg, Jimmie and Robert Gibbs. THREE NOTEWORTHY DISTRIBUTION RECORDS FOR OKLAHOMA FISHES. *Proc. Okla. Acad. Sci.* Vol. 72. p. 63-64. 1992. FR 39(3)

[Environ. Serv. Lab., Dep. Health, Oklahoma City, OK 73152] *Etheostoma cragini, Erimyzon sucetta, Platygobio gracilis,* and data for seven other species.

94-005471 Pigg, Jimmie; Mark S. Coleman and Judy Duncan. AN ECOLOGICAL INVESTIGATION OF THE ICHTHYOFAUNA OF THE NORTH CANADIAN RIVER IN OKLAHOMA: 1976-1989. *Proc. Okla. Acad. Sci.* Vol. 72. p. 21-32. 1992. FR 39(3)

[Environ. Serv., Dep. Health, Oklahoma City, OK 73152] Data for 56 species.

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[Environ. Serv. Lab., Dep. Health, Oklahoma City, OK 73152] *Tilapia aurea, Ctenopharyngodon idella,* and *Scardinius erythrophthalmus.*

94-005473 Ramirez Villarroel, Pablo. STRUCTURE OF THE FISH COMMUNITIES OF RAYA LAGOON, MARGARITA ISLAND, VENEZUELA. *Cienc. Mar.* 20(1):1-16. 1994. In English and Spanish. FR 39(3)

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[Bernice P. Bishop Mus., Box 19000-A, Honolulu, HI 96817]

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[J.L.B. Smith Inst. Ichthyol., Private Bag 1015, Grahamstown 6140, South Africa]

94-005476 Stephenson, S. A. and W. T. Momot. ISOSTATIC REBOUND AND ITS EFFECTS ON FISH COLONIZATION AND DISTRIBUTION IN THE WESTERN LAKE SUPERIOR BASIN. *Can. J. Zool.* 72(1):78-86. 1994. In English with French summ. FR 39(3)

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[U.S. Dep. Interior, Natl. Park Serv., Death Valley Natl. Monument, Death Valley, CA] *Cyprinodon salinus milleri* in California.

94-005478 Wager, Rob. THE DISTRIBUTION AND CONSERVATION STATUS OF QUEENSLAND FRESHWATER FISHES. *Queensl. Dep. Primary Ind. Inf. Ser.* QI93001. 62p. 1993. FR 39(2) [Fish. Div., Queensland Dep. Primary Ind., GPO Box 49, Brisbane, Qld. 4001, Australia]

94-005479 Yeager, Mindy; Tom Jones; Donald Tarter and Dan Cincotta. DISCOVERY OF THE CENTRAL MUDMINNOW, *UMBRA LIMI* (KIRTLAND), IN WEST VIRGINIA. *Proc. W.Va. Acad. Sci.* 62(1):12. 1990. Abstract only. FR 39(3)

## ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY

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[Pac. Grove Mus. Nat. Hist., 165 Forest Ave., Pacific Grove, CA 93950]

94-005481 Beals, Carla D. EFFECTS OF SALINITY ON BACKCROSSED SUNSHINE BASS [(WHITE BASS X STRIPED BASS HYBRID [FEMALE]) X (STRIPED BASS [MALE])]. *Bull. S.C. Acad. Sci.* No. 56. p. 26-27. Abstract only. FR 39(3)

*Morone chrysops* x *M. saxatilis.*

94-005482 Berrow, Simon. SMALL PREY IN DIET OF SHAGS. *Br. Birds* 87(3):145. 1994. FR 39(3)

[Dep. Zool., Univ. College Cork, Cork, Ireland] *Sprattus sprattus, Pomatoschistus pictus, Crenimugil labrosus,* and *Atherina presbyter* in Ireland.

## ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (Continued)

94-005483 Burke, W. David; William W. Walker; Chet Rakocinski; John M. Macauley and J. Kevin Summers. LATE SUMMER FISH ASSEMBLAGES FROM THE BACK BAY OF BILOXI: COMMUNITY ANALYSIS WITH SELECTED PHYSICO-CHEMICAL PARAMETERS. *J. Miss. Acad. Sci.* 39(1):81. 1994. Abstract only. FR 39(3)

[Gulf Coast Res. Lab., Ocean Springs, MS 39564] *Leiostomus xanthurus* and *Cynoscion arenarius* in Mississippi.

94-005484 Butler, Robert W. TIME OF BREEDING IN RELATION TO FOOD AVAILABILITY OF FEMALE GREAT BLUE HERONS (*ARDEA HERODIAS*). *Auk* 110(4):693-701. 1993. FR 39(3)

[Canadian Wildl. Serv., Box 340, Delta, BC, Canada V4K 3Y3] *Cymatogaster aggregata* in Canada.

94-005485 Caron, James A., Jr., and William L. Robinson. RESPONSES OF BREEDING COMMON LOONS TO HUMAN ACTIVITY IN UPPER MICHIGAN. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia*Vol. 279/280. p. 431-438. 1994. FR 39(3)

[Dep. Biol., North. Mich. Univ., Marquette 49855] *Micropterus salmoides, M. dolomieu, Perca flavescens, Lepomis macrochirus,* and *Esox lucius.*

94-005486 Clarke, Raymond D. HABITAT PARTITIONING BY CHAENOPSID BLENNIES IN BELIZE AND THE VIRGIN ISLANDS. *Copeia* 1994(2):398-405. 1994. FR 39(3)

[Biol. Dep., Sarah Lawrence Coll., Bronxville, NY 10708] Data for six species.

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[Univ. N.C., Chapel Hill 27599] *Fundulus heteroclitus.*

94-005488 DeBlois, E. M. and W. C. Leggett. MATCH/MISMATCH BETWEEN THE ABUNDANCE OF MARINE FISH EGGS AND INVERTEBRATE PREDATORS: AN ANALYSIS OF *CALLIOPIUS LAEVIUSCULUS* (AMPHIPODA: GAMMARIDAE) POPULATION GROWTH RELATIVE TO THE SEASONAL SPAWNING CYCLE OF CAPELIN (*MALLOTUS VILLOSUS*). *Can. J. Fish. Aquat. Sci.* 50(12):2581-2590. 1993. In English with French summ. FR 39(3)

[Dep. Biol., McGill Univ., 1205 Ave. Docteur Penfield, Montreal, PQ, Canada H3A 1B1]

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[Provincial Gov. (Lansstyrelsen) in Goteborgs Bohus lan, Dep. Environ. Prot. (Miljovardsenheten), S-403 40 Goteborg, Sweden] *Coregonus albula, Perca fluviatilis,* and *Rutilus rutilus.*

94-005490 Evers, David C. ACTIVITY BUDGETS OF A MARKED COMMON LOON (*GAVIA IMMER*) NESTING POPULATION. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 415-420. 1994. FR 39(3)

[Whitefish Point Bird Observ., Paradise, MI 49768] *Ameiurus nebulosus, Esox lucius, Catostomus commersoni,* and *Lepomis macrochirus* in Michigan.

94-005491 Ewins, P. J.; D. V. Weseloh; J. H. Groom; R. Z. Dobos and P. Mineau. THE DIET OF HERRING GULLS (*LARUS ARGENTATUS*) DURING WINTER AND EARLY SPRING ON THE LOWER GREAT LAKES. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 39-55. 1994. FR 39(3)

[Canadian Wildl. Serv., Ontario Reg., Environ. Canada, Box 5050, Burlington, ON, Canada L7R 4A6] *Osmerus mordax, Alosa pseudoharengus,* and *Aplodinotus grunniens.*

94-005492 Feunteun, Eric and Loic Marion. ASSESSMENT OF GREY HERON PREDATION ON FISH COMMUNITIES: THE CASE OF THE LARGEST EUROPEAN COLONY. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 327-344. 1994. FR 39(3)

[Fish-Pass, 85 rue Saint Brieuc, 35000 Rennes, France] *Anguilla anguilla, Ameiurus melas,* and *Blicca bjoerkna* in France.

94-005493 Flecker, Alexander S. BIOLOGICAL DISTURBANCE AND THE STRUCTURE OF TROPICAL RIVERINE COMMUNITIES. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:67. 1994. Abstract only. FR 39(3)

[Cornell Univ., Ithaca, NY 14853] *Prochilodus mariae.*

94-005494 Fox, A. D. ESTUARINE WINTER FEEDING PATTERNS OF LITTLE GREBES *TACHYBAPTUS RUFICOLLIS* IN CENTRAL WALES. *Bird Study* 41(1):15-24. 1994. FR 39(3)

[Nat. Environ. Res. Inst., Wildl. Ecol., Kalo, DK-8410 Ronde, Denmark] *Gobio.*

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94-005495 Gard, Mark Freeman. BIOTIC AND ABIOTIC FACTORS AFFECTING NATIVE STREAM FISHES IN THE SOUTH YUBA RIVER, NEVADA COUNTY, CALIFORNIA. *Ph.D. dissertation, Univ. Calif. (Davis)* 179p. 1994. FR 39(3)

*Hesperoleucus symmetricus, Ptychocheilus grandis, Mylopharodon conocephalus, Micropterus dolomieu,* and data for five other species.

94-005496 Gitschlag, Gregg R. and Maurice L. Ranaud. FIELD EXPERIMENTS ON SURVIVAL RATES OF CAGED AND RELEASED RED SNAPPER. *N. Am. J. Fish. Manage.*14(1):131-136. 1994. FR 39(3)

[NMFS, Southeast Fish. Cent., Galveston Lab., 4700 Ave. U, Galveston, TX 77551] *Lutjanus campechanus* in Texas.

94-005497 Gremillet, David J. H. and Andrea L. Plos. THE USE OF STOMACH TEMPERATURE RECORDS FOR THE CALCULATION OF DAILY FOOD INTAKE IN CORMORANTS. *J. Exp. Biol.* Vol. 189. p. 105-115. 1994. FR 39(3)

[Inst. Meereskunde, Dusternbrooker Weg 20, D-24105 Kiel, Germany] *Clupea harengus* and *Rutilus rutilus.*

94-005498 Hamer, K. C.; D. R. Thompson; A. J. Rundle; S. A. Lewis and F. M. Stewart. MESOPELAGIC FISH EATEN BY YELLOW-LEGGED HERRING GULLS *LARUS ARGENTATUS ATLANTIS* IN THE AZORES. *Seabird* No. 16. p. 30-33. 1994. FR 39(3)

[Dep. Biol. Sci., Durham Univ., South Rd., Durham DH1 3LE, England] Data for three species, eight genera, and three families.

94-005499 Hill, J. K. and K. C. Hamer. DO GREAT SKUAS *CATHARACTA SKUA* RESPOND TO CHANGES IN THE NUTRITIONAL NEEDS OF THEIR CHICKS? *Seabird* No. 16. p. 3-7. 1994. FR 39(3)

[School Biol. & Earth Sci., Liverpool John Moores Univ., Byrom St., Liverpool L3 3AF, England] *Ammodytes marinus* in Scotland.

94-005500 Huckins, Casey J. F. INTERACTIONS BETWEEN NATIVE AND INTRODUCED CONGENERS IN A SUNFISH GUILD. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:100. 1994. Abstract only. FR 39(3)

[Kellogg Biol. Stn., Mich. State Univ., Hickory Corners 49060] *Lepomis gibbosus* and *L. microlophus* in Michigan.

94-005501 Jester, Douglas B.; Anthony A. Echelle; William J. Matthews; Jimmie Pigg; Charles M. Scott and Kenneth D. Collins. THE FISHES OF OKLAHOMA, THEIR GROSS HABITATS, AND THEIR TOLERANCE OF DEGRADATION IN WATER QUALITY AND HABITAT. *Proc. Okla. Acad. Sci.* Vol. 72. p. 7-19. 1992. FR 39(3)

[Water Quality Div., Water Resour. Board, Oklahoma City, OK 73101-0150] Data for 181 species.

94-005502 Keefe, MaryLouise and Kenneth W. Able. CONTRIBUTIONS OF ABIOTIC AND BIOTIC FACTORS TO SETTLEMENT IN SUMMER FLOUNDER, *PARALICHTHYS DENTATUS. Copeia* 1994(2):458-465. 1994. FR 39(3)

[Dep. Fish & Wildl., 211 Inlow Hall, East. Oreg. State Coll., La Grande 97850]

94-005503 Ludsin, Stuart A. and Dennis R. DeVries. A MECHANISTIC APPROACH TO UNDERSTANDING FIRST-YEAR SURVIVAL OF LARGEMOUTH BASS (*MICROPTERUS SALMOIDES*): THE INFLUENCE OF HATCH DATE, OVERWINTER MORTALITY, AND GIZZARD SHAD (*DOROSOMA CEPEDIANUM*). *Bull. Ecol. Soc. Am.* 75(2)Suppl.:138. 1994. Abstract only. FR 39(3)

[Auburn Univ., Auburn, AL 36849]

94-005504 Lupher, M. L. and R. W. Clarkson. TEMPERATURE TOLERANCE OF HUMPBACK CHUB (*GILA CYPHA*) AND COLORADO SQUAWFISH (*PTYCHOCHEILUS LUCIUS*). *Proc. Desert Fishes Counc.* Vol. 25. p. 38. 1994. English and Spanish abstract only. FR 39(3)

[HC 60, Box 870, Ruby Valley, NV 89833]

94-005505 Magoulick, Daniel D. INFLUENCE OF INTRODUCED RAINBOW TROUT ON POSITION CHOICE OF NATIVE BROOK TROUT. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:141. 1994. Abstract only. FR 39(3)

[Univ. Pittsburgh, Pittburgh, PA 15260] *Salvelinus fontinalis* and *Oncorhynchus mykiss.*

94-005506 Mallory, Mark L.; Peter J. Blancher; Patrick J. Weatherhead and Donald K. McNicol. PRESENCE OR ABSENCE OF FISH AS A CUE TO MACROINVERTEBRATE ABUNDANCE IN BOREAL WETLANDS. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 345-351. 1994. FR 39(3)

[Blancher: Canadian Wildl. Serv., Natl. Wildl. Res. Cent., 100 Gamelin Blvd., Hull, PQ, Canada K1A 0H3] *Semotilus margarita, Chrosomus eos, C. neogaeus, Pimephales promelas, Luxilus cornutus, Culaea inconstans, Etheostoma exile,* and *Catostomus commersoni* in Canada.

**ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (Continued)**

94-005507 McIntyre, Judith W. LOONS IN FRESHWATER LAKES. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 393-413. 1994. FR 39(3)
[Utica Coll. Syracuse Univ., Utica, NY 13502] *Culaea inconstans, Umbra limi,* and *Ameiurus nebulosus* in Minnesota and *Pungitius pungitius* and *Thymallus thymallus* in Canada.

94-005508 Monaghan, P.; P. Walton; S. Wanless; J. D. Uttley and M. D. Burns. EFFECTS OF PREY ABUNDANCE ON THE FORAGING BEHAVIOUR, DIVING EFFICIENCY AND TIME ALLOCATION OF BREEDING GUILLEMOTS *URIA AALGE. Ibis* 136(2):214-222. 1994. FR 39(3)
[Appl. Ornithol. Unit, Dep. Zool., Univ. Glasgow, Glasgow G12 8QQ, Scotland] *Ammodytes* in Scotland.

94-005509 Montecinos, Aldo and Fernando Balbontin. [UPWELLING INDICES AND SEA SURFACE CIRCULATION: BIOLOGICAL CONSEQUENCES FOR A SPAWNING AREA OF FISHES LOCATED BETWEEN LOS VILOS AND VALPARAISO, CHILE.] *Rev. Biol. Mar.* 28(1):133-150. 1993. In Spanish with English summ. FR 39(3)
[Dep. Geofisica, Univ. Chile, Casilla 2777, Santiago, Chile] Data for 26 species.

94-005510 Norman, F. I. and S. J. Ward. FOODS AND ASPECTS OF GROWTH IN THE ANTARCTIC PETREL AND SOUTHERN FULMAR BREEDING AT HOP ISLAND, RAUER GROUP, EAST ANTARCTICA. *Emu* 92(4):207-222. 1992. FR 39(3)
[Dep. Ecol. & Evol. Biol., Monash Univ., Clayton, Vic. 3168, Australia] *Pleuragrammus antarcticus.*

94-005511 Olson, Mark H. ONTOGENETIC NICHE SHIFTS IN LARGEMOUTH BASS: VARIABILITY AND CONSEQUENCES FOR FIRST YEAR GROWTH. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:170. 1994. Abstract only. FR 39(3)
[Univ. Wis., Madison 53706] *Micropterus salmoides* in Michigan.

94-005512 Pace, Michael L. AN INVASIVE SPECIES ALTERS THE TEMPORAL AND SPATIAL PATTERNS OF PLANKTON BLOOMS IN THE HUDSON ESTUARY II. ZOOPLANKTON. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:172. 1994. Abstract only. FR 39(3)
[Inst. Ecosyst. Studies, Box AB, Millbrook, NY 12545]

94-005513 Parker, Michael S. PREDATION BY PACIFIC GIANT SALAMANDER LARVAE ON JUVENILE STEELHEAD TROUT. *Northwest. Nat.* 74(3):77-81. 1993. FR 39(3)
[Dep. Integrative Biol., Univ. Calif., Berkeley 94720] *Oncorhynchus mykiss* in California.

94-005514 Rinne, J. N. ABIOTIC AND BIOTIC FACTORS INFLUENCING THE SUSTAINABILITY OF THE THREATENED LITTLE COLORADO SPINEDACE, *LEPIDOMEDA VITTATA. Proc. Desert Fishes Counc.* Vol. 25. p. 19. 1994. English and Spanish abstract only. FR 39(3)
[U.S. For. Serv., Flagstaff, AZ] *L. v. vittata* and *Oncorhynchus mykiss* in Arizona.

94-005515 Ross, Sue-Anne. FOOD AND FEEDING OF THE HOODED SEAL (*CYSTOPHORA CRISTATA*) IN NEWFOUNDLAND. *M.S. thesis, Memorial Univ. Newfoundland (Canada)* 185p. 1992. From Masters Abstr. Int. 32(2):553-554. 1994. Order No. MAMM82664. FR 39(3)
*Reinhardtius hippoglossoides, Sebastes, Boreogadus saida, Clupea harengus, Gadus morhua,* and *Mallotus villosus.*

94-005516 Ruggles, Anne K. HABITAT SELECTION BY LOONS IN SOUTHCENTRAL ALASKA. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 421-430. 1994. FR 39(3)
[Dep. Biol. & Wildl., Univ. Alaska, Fairbanks 99775] *Gasterosteus aculeatus.*

94-005517 Schaefer, Jacob F.; Steven T. Heulett and Terence M. Farrell. INTERACTIONS BETWEEN TWO POECILIID FISHES (*GAMBUSIA HOLBROOKI* AND *HETERANDRIA FORMOSA*) AND THEIR PREY IN A FLORIDA MARSH. *Copeia* 1994(2):516-520. 1994. FR 39(3)
[Zool. Dep., Univ. Okla., Norman 73019]

94-005518 Strange, Elizabeth M.; Theodore C. Foin and Peter B. Moyle. MODELING INVADER IMPACT: THE ROLE OF ENVIRONMENTAL VARIATION IN PATTERNS OF SPECIES REPLACEMENT. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:221. 1994. Abstract only. FR 39(3)
[Univ. Calif., Davis 95616]

94-005519 Thomas, Heather M. and Todd A. Crowl. COMPETITIVE INTERACTIONS BETWEEN EXOTIC BROOK TROUT AND NATIVE COLORADO CUTTHROAT TROUT IN HIGH MOUNTAIN STREAMS. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:228. 1994. Abstract only. FR 39(3)
[Ecol. Cent., Utah State Univ., Logan 84322-5210] *Oncorhynchus clarki pleuriticus,* and *Salvelinus fontinalis.*

94-005520 Unwin, Martin, coordinator. SUSTAINABLE BIOLOGICAL PRODUCTION: SALMON BIOLOGY AND POPULATION DYNAMICS. *Water & Atmos.* 1(3):23. 1993. FR 39(3)
*Oncorhynchus tshawytscha* in New Zealand.

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94-005521 Uttley, J. D.; P. Walton; P. Monaghan and G. Austin. THE EFFECTS OF FOOD ABUNDANCE ON BREEDING PERFORMANCE AND ADULT TIME BUDGETS OF GUILLEMOTS *URIA AALGE*. *Ibis* 136(2):205-213. 1994. FR 39(3)

[Scottish Nat. Heritage, 2-4 Alexandra Bldg., Lerwick, Shetland ZE1 0LL, Scotland] *Ammodytes, Mallotus villosus, Sprattus sprattus*, and *Clupea harengus* in Scotland.

94-005522 Waltho, Nigel; Patti Allen; Ron Allen and Jurek Kolasa. INTERACTION [BETWEEN] THE SAMPLING WINDOW AND HABITAT PROPERTIES: IMPLICATIONS FOR CORAL REEF FISH STUDIES. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:241. 1994. Abstract only. FR 39(3)

[McMaster Univ., Hamilton, ON, Canada L8S 4K1]

94-005523 Warke, G. M. A.; K. R. Day; J. E. Greer and R. D. Davidson. CORMORANT (*PHALACROCORAX CARBO* [L]) POPULATIONS AND PATTERNS OF ABUNDANCE AT BREEDING AND FEEDING SITES IN NORTHERN IRELAND, WITH PARTICULAR REFERENCE TO LOUGH NEAGH. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 91-100. 1994. FR 39(3)

[Day: Univ. Ulster, Appl. Ecol. Res. Group, Dep. Biol. & Biomed. Sci., Coleraine BT52 1SA, Northern Ireland] *Rutilus rutilus.*

94-005524 Winfield, Denise K. and Ian J. Winfield. POSSIBLE COMPETITIVE INTERACTIONS BETWEEN OVERWINTERING TUFTED DUCK (*AYTHYA FULIGULA* (L.)) AND FISH POPULATIONS OF LOUGH NEAGH, NORTHERN IRELAND: EVIDENCE FROM DIET STUDIES. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 377-386. 1994. FR 39(3)

[Univ. Ulster Freshwater Lab., Traad Point, Ballyronan, Co. Londonderry BT45 6LR, Northern Ireland] *Rutilus rutilus.*

94-005525 Young, G.; C. L. Brown; R. S. Nishioka; L. C. Folmar; M. Andrews; J. R. Cashman and H. A. Bern. HISTOPATHOLOGY, BLOOD CHEMISTRY, AND PHYSIOLOGICAL STATUS OF NORMAL AND MORIBUND STRIPED BASS (*MORONE SAXATILIS*) INVOLVED IN SUMMER MORTALITY ('DIE-OFF') IN THE SACRAMENTO - SAN JOAQUIN DELTA OF CALIFORNIA. *J. Fish Biol.* 44(3):491-512. 1994. FR 39(3)

[Bern: Dep. Integrative Biol., Cancer Res. Lab., Univ. Calif., Berkeley 94720]

**IDENTIFICATION, KEYS, CLASSIFICATION**

94-005526 Ahlberg, Per E. and Andrew R. Milner. THE ORIGIN AND EARLY DIVERSIFICATION OF TETRAPODS. *Nature (Lond.)* 368(6471):507-514. 1994. FR 39(3)

[Dep. Palaeontol., Nat. Hist. Mus., Cromwell Rd., London SW7 5BD, England]

94-005527 Andriyashev, A. P. and D. L. Pitruk. REVIEW OF THE ULTRA-ABYSSAL (HADAL) GENUS *PSEUDOLIPARIS* (SCORPAENIFORMES, LIPARIDAE) WITH A DESCRIPTION OF A NEW SPECIES FROM THE JAPAN TRENCH. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 33(9):31-39. 1993. FR 39(3)

[Zool. Inst., Russian Acad. Sci., St. Petersburg, Russia] *P. belyaevi.*

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[Dep. Zool. & Biol. Mar., Univ. Fed. Rio de Janeiro, CCS, Cidade Universitaria, 21941, Rio de Janeiro, Brazil] *Microcambeva barbata.*

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[Lab. Ictiol. Geral & Aplicada, Dep. Zool. & Biol. Mar., Univ. Fed. Rio de Janeiro, Cidade Universitaria, Cx. Postal 68049, 21944 Rio de Janeiro, RJ, Brazil] *R. ocellatus* in Brazil.

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[Graves: School Mar. Sci., Va. Inst. Mar. Sci., Coll. William and Mary, Gloucester Point 23062] *Bairdiella chrysoura, Cynoscion nebulosus, C. regalis, Menticirrhus, M. saxatilis,* and *Pogonias cromis.*

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94-005537 International Commission on Zoological Nomenclature. *FILIMANUS* MYERS, 1936 (OSTEICHTHYES, PERCIFORMES): *FILIMANUS PERPLEXA*FELTES, 1991 DESIGNATED AS THE TYPE SPECIES. *Bull. Zool. Nomencl.* 51(1):81. 1994. FR 39(3)

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[Dep. Ecol. & Evol. Biol., Univ. Conn., Storrs 06269]

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[Dep. Math. & Sci., U.S. Merchant Mar. Acad., Kings Point, NY 11024] *R. ocellatus.*

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[Blanch: Dep. Microbiol., Univ. Barcelona, 08028 Barcelona, Catalonia, Spain] *Sparus auratus.*

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[Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849]

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[Bercovier: Dep. Clinical Microbiol., Hebrew Univ. - Hadassah Med. School, POB 1172, Jerusalem 91010, Israel] *Oncorhynchus mykiss* and *Tilapia.*

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[Ubeira: Lab. Parasitol., Fac. Farm., Univ. Santiago de Compostela, 15706 Santiago de Compostela, Spain]

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[School For., Wildl., & Fish., Agric. Exp. Stn., La. State Univ. Agric. Cent., Baton Rouge 70803]

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[Dep. Pathol., Coll. Vet. Med., Auburn Univ., Auburn, AL 63849-5516] *Ictalurus punctatus.*

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[Sect. Bacteriol. & Epizootol., Dep. Vet. Microbiol., Fac. Vet. Med., Univ. Agric. Sci., Biomed. Cent., Box 583, S-751 23, Uppsala, Sweden] *Anguilla anguilla.*

94-005577 Lamas, Jesus and Anthony E. Ellis. ATLANTIC SALMON (*SALMO SALAR*) NEUTROPHIL RESPONSES TO *AEROMONAS SALMONICIDA*. *Fish & Shellfish Immunol.* 4(3):201-219. 1994. FR 39(3)
[Ellis: SOAFD Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

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[Royal Vet. & Agric. Univ., Dep. Vet. Microbiol., Sect. Fish Dis., Bulowsvej 13, DK-1870 Frederiksberg C, Denmark] *Archosargus rhomboidalis* and *Oncorhynchus mykiss.*

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[Agric. Exp. Stn., Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849] *Ictalurus punctatus.*

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[Dep. Fish. & Allied Aquacult., Auburn Univ., Auburn, AL 36849] *Ictalurus punctatus.*

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[Coll. Agric. & Vet. Med., King Saud Univ., Branch Al-Qasseem, Buriedah Box No. 1482, Saudi Arabia] *Tilapia aurea* x *T. nilotica.*

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[Lab. Genet. Bacteriana, Inst. Biol., Univ. Catolica Valparaiso, Casilla 4059, Valparaiso, Chile]

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[Anderson: Natl. Fish Health Res. Lab., Box 700, Kearneysville, WV 25430] *Oncorhynchus mykiss.*

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[Mar. Ecol. Disturbance Inform. Cent., Dep. Mar. Sci., Univ. Puerto Rico, P.O. Box 908, Lajas, PR 00667-0908] *Amblygaster sirm* and *A. leiogaster.*

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[Dolara: Dep. Pharmacol. & Toxicol., Viale Morgagni 65, Florence 50134, Italy] *Heterotis niloticus, Pseudotolithus elongatus, Caranx hippos,* and *Pomadasys peroteti.*

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[Div. Environ. Health Lab. Sci., Natl. Cent. Environ. Health, Cent. Dis. Control, Public Health Serv., U.S. Dep. Health & Human Serv., Atlanta, GA 30333] *Pomatomus saltatrix.*

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[Inst. Life Sci. & Chem., 17.2 Roskilde Univ., P.O. Box 260, DK-4000 Roskilde, Denmark]

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[Environ. Conserv. Div., Northwest Fish. Cent., NMFS, NOAA, 2725 Montlake Blvd. E., Seattle, WA 98112]

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[Environ. Stat. Off., Danmarks Stat., Sejrogade 11, DK-2100 Copenhagen, Denmark] *Pleuronectes platessa* and *Platichthys flesus* in the North Sea.

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[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, Scotland] *Salmo salar* in Scotland and Norway.

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[Dep. Environ. & Toxicol. Chem., Univ. Amsterdam, Nieuwe Achtergracht 166, 1018 WV Amsterdam, Netherlands] *Poecilia reticulata.*

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[Environ. Eng. Program, School Environ., Resour. & Dev., Asian Inst. Technol., G.P.O. Box 2754, Bangkok, Thailand] *Synaptura orientalis, Kryptopterus*, and *Cynoglossus* in Thailand.

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[Dep. Biol., Wilfrid Laurier Univ., 75 University Ave. W., Waterloo, ON, Canada N2L 3C5] *Pimephales promelas.*

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[Inst. Toxicol., Swiss Fed. Inst. Technol. & Univ. Zurich, Schorenstr. 16, CH-8603 Schwarzenbach, Switzerland]

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[Robberecht: Dep. Pharm. Sci., Univ. Antwerp, Universiteitsplein 1, 2610 Wilrijk, Belgium] *Lates stappersi.*

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[Minist. Environ. & Energy, 125 Resources Rd., Etobicoke, ON, Canada M9P 3V6] *Notropis hudsonius.*

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[Lasenby: Watershed Ecosyst. Grad. Programme, Trent Univ., Peterborough, ON, Canada K9J 7B8]

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[Inst. Mar. Res., P.O. Box 1870, N-5024 Nordnes-Bergen, Norway]

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[Natl. Environ. Res. Inst., Dep. Freshwater Ecol., Vejlsovej 25, P.O. Box 314, DK-8600 Silkeborg, Denmark]

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[RIZA, P.O. Box 17, 8200 AA Lelystad, Netherlands] *Perca fluviatilis, Gymnocephalus cernuus; Abramis brama, Rutilus rutilus* and *Esox lucius.*

94-006050 Meijer, M.-L.; E. Jeppesen; E. van Donk; B. Moss; M. Scheffer; E. Lammens; E. van Nes; J. A. van Berkum; G. J. de Jong; B. A. Faafeng and J. P. Jensen. LONG-TERM RESPONSES TO FISH-STOCK REDUCTION IN SMALL SHALLOW LAKES: INTERPRETATION OF FIVE-YEAR RESULTS OF FOUR BIOMANIPULATION CASES IN THE NETHERLANDS AND DENMARK. *In: Nutrient Dynamics and Biological Structure In Shallow Freshwater and Brackish Lakes. E. Mortensen, E. Jeppesen, M. Sondergaard, and M. Kamp Nielsen, editors. Hydrobiologia* Vol. 275/276. p. 457-466. 1994. FR 39(3)
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94-006064 Woolhead, Jan. BIRDS IN THE TROPHIC WEB OF LAKE ESROM, DENMARK. *Aquatic Birds in the Trophic Web of Lakes. Proceedings of a symposium held in Sackville, New Brunswick, Canada, in August 1991. Joseph J. Kerekes, editor. Hydrobiologia* Vol. 279/280. p. 29-38. 1994. FR 39(3)
[Inst. Biol. & Chem., Univ. Roskilde, Postbox 260, 4000 Roskilde, Denmark] *Perca fluviatilis, Anguilla anguilla, Rutilus rutilus, Gymnocephalus cernuus, Alburnus alburnus, Abramis brama, Tinca tinca,* and *Carassius carassius.*

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## RIVER AND STREAM MANAGEMENT AND RESEARCH

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[Wilderness Soc., 1424 Fourth St., Seattle, WA 98101]

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[Game & Fish Dep., 260 Buena Vista, Lander, WY 82520] *Salvelinus fontinalis.*

94-006072 Box, J. D. and G. J. Walker. CONSERVATION OF THE BLYTHE, A HIGH QUALITY RIVER IN A MAJOR URBAN AREA IN ENGLAND. *Aquat. Conserv. Mar. Freshwater Ecosyst.* 4(1):75-85. 1994. FR 39(3)
[English Nat., Attingham Park, Atcham, Shrewsbury, Shropshire SY4 4TW, England] Data for 11 species.

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[Inst. Pollution Studies, Rivers State Univ. Sci. & Technol., Nkpolu, PMB 5080, Port Harcourt, Nigeria] Data for 57 species.

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[U.S. Fish & Wildl. Serv., Austin, TX] *Etheostoma fonticola* in Texas.

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Data for 29 species.

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[Univ. Tenn., Knoxville 37996-0810] *Erimystax cahni, Noturus baileyi, N. flavipinnis, N. trautmani, Etheostoma sellare, E. wapiti,* and data for 12 other species in southeastern United States.

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[Seattle Drainage & Wastewater Utility, Seattle, WA] *Oncorhynchus* in Washington.

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[Res. Branch, Game & Fish Dep., Flagstaff, AZ] *Rhinichthys osculus, Gila cypha, Catostomus latipinnis,* and *C. discobolus* in Arizona.

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[BIO/WEST, Inc., Logan, UT] *Plagopterus argentissimus.*

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94-006097 Hume, H. G. and O. L. Loucks. HOUSING PATTERNS, TECHNOLOGY, AND REGULATION AS CONTROLS FOR PROTECTING BIOLOGICAL DIVERSITY IN THE BIG DARBY CREEK BIORESERVE, OHIO. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:101. 1994. Abstract only. FR 39(3)

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[U.S. Fish & Wildl. Serv., Klamath River Fish. Off., P.O. Box 1006, Yreka, CA 96097] *Oncorhynchus kisutch, O. tshawytscha, O. clarki, O. mykiss,* and *Acipenser medirostris* in California.

94-006099 Jager, Henriette I.; Michael J. Sale; Hal E. Cardwell; Donald L. Deangelis; Mark J. Bevelhimer and Charles C. Coutant. STREAMFLOW EFFECTS ON SPAWNING, REARING, AND OUTMIGRATION OF FALL-RUN CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) PREDICTED BY A SPATIAL AND INDIVIDUAL-BASED MODEL. *Bull. Ecol. Soc. Am.* 75(2)Suppl.:120. 1994. Abstract only. FR 39(3)

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[Dep. Fish & Game, Div. Commer. Fish., P.O. Box 20, Douglas, AK 99824] *Oncorhynchus nerka.*

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[Dep. Fish & Game, Div. Commer. Fish., P.O. Box 240020, Douglas, AK 99824-0020] *Oncorhynchus nerka* in Alaska and Canada.

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## MARINE MANAGEMENT AND RESEARCH

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[Dep. Wildl., Reg. III, 4747 Vegas Dr., Las Vegas, NV 89108] *Empetrichthys latos latos, Crenichthys baileyi grandis, C. b. baileyi, C. b. thermophilis, C. nevadae, Gila robusta jordani, G. r. seminuda, G. bicolor, Lepidomeda albivallis, L. mollispinis pratensis, Plagopterus argentissimus, Xyrauchen texanus, Moapa coriacea, Relictus solitarius, Rhinichthys osculus, R. o. moapa,* and *Tilapia aurea.*

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[Northwest. School Law, Lewis & Clark Coll., Portland, OR 97219] *Oncorhynchus* in the United States.

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*Salmo salar* and *S. trutta* in Scotland.

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[Ecol. Serv. State Off., Reno, NV] *Deltistes luxatus, Chasmistes brevirostris, Gila boraxobius, G. bicolor thalassina, G. b. oregonensis, Salvelinus confluentus, Catostomus occidentalis lacusanserinus, Oncorhynchus mykiss, O. aguabonita whitei, Lampetra tridentata,* and data for 21 other species.

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[Game & Fish Dep., Nongame Branch, Phoenix, AZ] *Meda fulgida, Rhinichthys cobitis,* and *Xyrauchen texanus.*

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## BOOK REVIEW

Carpenter, S. R., and J. F. Kitchell, editors. 1993. *The Trophic Cascade in Lakes*. Cambridge University Press, 40 W. 20th St., New York, NY 10011-4211. 385 pp. Available from the publisher at $84.95 (cloth).

*The Trophic Cascade in Lakes* chronicles a massive 7-year research effort investigating the factors and processes controlling the variability of primary production in lake ecosystems. The overall goal of the research was to test the trophic cascade hypothesis: that fluctuations in top predator populations (fishes) "cascade" through food webs and interact with nutrients to control algal production.

The authors bring a wide array of ecological approaches to bear on the problem: intensive whole-ecosystem manipulation and interlake comparisons combined with small-scale enclosure experiments, day-to-day measurements and paleolimnological evidence, and new statistical approaches and simulation modeling.

The book consists of 17 chapters by the several experts who planned and conducted the fieldwork for this project. After three excellent explanatory chapters the organization is "top-down." Three chapters are devoted to population dynamics, behavior, and diet of fishes. These are followed by four thorough chapters on zooplankton dynamics. The dynamics of phytoplankton and primary production are treated in three chapters, followed by one on microbial processes and another that reconstructs past food web configurations from paleolimnological evidence. Chapter 16 documents the simulation modeling that was central to the project. The last chapter synthesizes findings and looks to the future of ecosystem experimentation and management.

Its organization makes the book accessible to a variety of readers—introductory chapters set the stage and the final synthesis chapter summarizes key findings of the work. Each of the 12 chapters at the core of the book ends with a summary of results.

*The Trophic Cascade in Lakes* should appeal to a wide audience of graduate students and researchers. State-of-the-art theory and methods in a variety of ecological and aquatic disciplines are brought together and integrated. Many ecologists will be intrigued by the statistical approaches applied throughout the book and explained thoroughly and lucidly in Chapter 3. Although the work was conducted in a relatively pristine environment, resource managers will find important and useful lessons about ecosystem management in practice.—Brett Johnson, Department of Fishery and Wildlife Biology, Colorado State University, Fort Collins, CO 80523.

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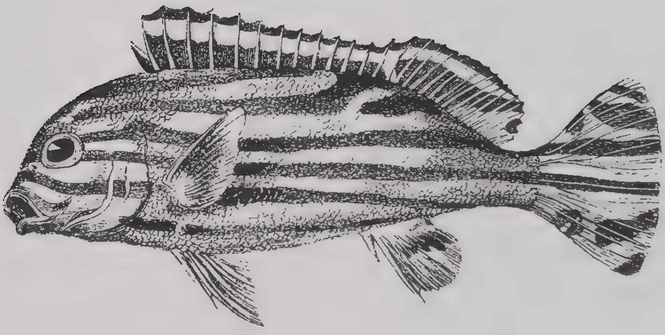

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**Recovering Rights: Bowhead Whales and Inuvialuit Subsistence in the Western Canadian Arctic**, by Milton M. R. Freeman, Eleanor E. Wein, and Darren E. Keith. 1992. Canadian Circumpolar Institute, University of Alberta, Edmonton, AB, Canada T6G 2E9. xv + 155 p. (paper).

**Environmental Profiles: A Global Guide to Projects and People**, by Linda Sobel Katz, Sarah Orick, and Robert Honig. 1993. Garland Publishing, Inc., 717 Fifth Ave.–Suite 2500, New York, NY 10022. xxvi + 1,083 p. $125.00 (cloth).–Profiles thousands of organizations, colleges, projects, and preserves around the world. Thoroughly indexed, offers phone and FAX numbers of guiding individuals.

**Fish Watching: An Outdoor Guide to Freshwater Fishes**, by C. Lavett Smith. 1994. Cornell University Press, Ithaca, NY 14851-0250. xii + 216 p., 12 color pl. $42.50 (cloth) and $19.95 (paper).

**Voices From Off Shore: Narrative of Risk and Danger in the Nova Scotian Deep-Sea Fishery**, by Marian Binkley. 1994. ISER Books, Memorial University of Newfoundland, St. John's, NF, Canada A1C 5S7. viii + 235 p., 10 black-and-white plates. $24.95 (paper).

**Salmon Aquaculture**, edited by Knut Heen, Robert L. Monahan, and Fred Utter. 1993. John Wiley & Sons, Inc., New York, NY 10158. x + 278 p. $59.95 (cloth).

**Indian Deep-Sea Fishes in the Indian Museum** [reprint of 1899 edition by A. Alcock] **with List of Biological Stations** [reprint of 1914 and 1939 editions] **and Original Plates** [reprint from 1892-1905 and 1927 editions], compiled by P. K. Talwar. 1994. International Science Publisher, Lebanon, NH 03766-1400. xx + 211 p., 15 pl., 63 appendix p. $195.00 (cloth).

**The Physiology of Fishes**, edited by David H. Evans. 1993. CRC Press, Boca Raton, FL 33431. xii + 592 p. $95.00 (cloth).–Seventeen chapters by 20 distinguished fish physiologists; an introductory chapter by Carter Gilbert reviews recent concepts in fish classification and evolution.

**Fish Farming Technology**, edited by Helge Reinertsen, Lars Andre Dahle, Leif Jorgensen, and Kare Tvinnereim. 1993. A. A. Balkema Publishers, Brookfield, VT 05036. xiv + 482 p. $95.00 (cloth).–Proceedings of the First International Conference on Fish Farming Technology, Trondheim, Norway, 9-12 August 1993; 83 contributions on experience in mariculture, almost all as full papers.

**Sea Catch: Identification and Handling Fish and Shellfish from Sydney to Shark Bay**, by Don Tuma. 1994. DPI Queensland Publishing, GPO Box 46, Brisbane, Qld. 4001, Australia. iii + 117 p. $A29.95 (paper).–Superb color photographs of 217 marine fish species and a handful of crustaceans; brief diagnoses and ranges, intriguing notes on catching, marketing, and cooking methods (red X's mark photos of toxic species).

(Reviews of selected titles will appear in future issues of *Fisheries Review*.)

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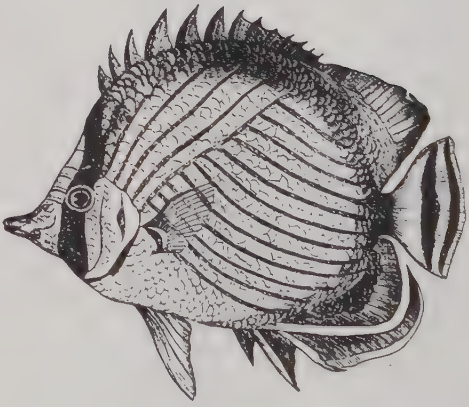

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